Electric grid andorra

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Generaci? d"energia el?ctricaGaranties d"origenLegislaci? aplicableGeneraci? d"energia el?ctricaEn els darrers anys, Andorra ha iniciat una transformaci? del model energ?tic que neix de la necessitat d"introduir els canvis necessaris per garantir la sostenibilitat i la sobirania energ?tiques. En aquest sentit, s"han fixat les bases d"un nou model en el qual l"electricitat es posiciona com a vector energ?tic del canvi.

El Mercat de garanties d"origen d"energia el?ctrica ?s una eina prevista per fomentar l"?s de les energies renovables per a la generaci? d"energia el?ctrica. Una garantia d"origen de l"energia el?ctrica acredita que una quantitat determinada d"energia el?ctrica ha estat produ?da en l"?mbit nacional o b? importada, i n"acredita l"origen segons si s"ha generat en:

FEDA required a sustainable solution that could guarantee the growth of the electricity supply of the Valls del Nord region (La Massana and Ordino) with proven power quality.

Additionally, they required the ability to allow for load reduction efficiently and securely at the Encamp Substation and optimize the distribution of electricity between the two valleys. Overlaying these requirements, the substation not only had to enable FEDA to achieve its sustainability goals, but it was to be integrated into the natural mountainside surroundings - close to neighbors and ski resorts - with minimal impact on the environment and optimized total cost of ownership (TCO).

With tourism being a key driver of Andorra"s economy, all new projects are deeply analyzed in terms of their effects on the local environment. Noise and visual pollution were, therefore of significant concern that Hitachi Energy had to resolve.

Our EconiQ(TM) portfolio provides a quantifiable, evidence-based approach, offering transparency on their environmental impact using scientific methodologies such as Life Cycle Analysis. Our EconiQ(TM) transformers place co-creating sustainability solutions at its heart and were the ideal solution for what FEDA was seeking.

The new substation, housing an EconiQ(TM) transformer, is necessary in view of the forecasted growth in electricity demand for the coming years, partly due to the increase in electric mobility and the conversion of diesel-based heating to electric. The substation will also absorb all new electricity generation from renewable sources.

Hitachi Energy worked closely with the experts from FEDA to design and install this technologically advanced equipment so that it integrated seamlessly into the substation respecting natural surroundings.

This 20/26 MVA, 106/21 kV, three-phase transformer has been designed with the new European Ecodesign

Tier 2 regulations, which guarantees that they are more environmentally friendly and more efficient while also emitting a low noise level. In addition, sound insulation measures have also been incorporated to further protect the natural beauty of this area.

Electricity will be able to be transported to this substation in high voltage (110 kV) and transformed to medium voltage (20 kV) so that it can be distributed to the parishes of La Massana and Ordino via its power lines.

To further add to these sustainability credentials, an alternative insulating fluid, Ester fluid, is used within the transformers which is biodegradable and has a far lower rate of flammability.

EconiQ(TM) is Hitachi Energy"s eco-efficient portfolio for sustainability where products,services, and solutions are proven to deliver exceptional environmental performance.

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Web: https://hollanddutchtours.nl/contact-us/
Email: energystorage2000@gmail.com
WhatsApp: 8613816583346